Quality Assurance 590.00

## PERFORMANCE EXAM CHECK LIST DETERMINING THE PLASTIC LIMIT AND PLASTICITY INDEX OF SOILS AASHTO T-90

Participant Name: ————————————————————————————————————		Exam Date:	
Recor	d the symbols "P" for passing or "F" for failing on each s	step of the checklist:	
Procedure Elements:			Trial#1 Trial#2
1.	<b>Inspect and clean apparatus.</b> Apparatus include mixing dish containers with lids, balance readable to 0.01g and a drying dry and within specifications. Moisture containers and their before each test.	oven. All apparatus should be clean	
2.	<b>Prepare sample</b> . As per AASHTO T-87 or AASHTO T-146. The 20g of material. Material for this test can be obtained from		
3.	<b>Adjustment of moisture content.</b> Moisture content shall be into a ball and is not sticky. Use distilled or demineralized was		
4.	Roll sample to 3.0 mm (approx. 1/8"). Take approximately 8g of the 20g sample and separate into 1.5— 2.0 gram increments. Roll on a ground surface with just enough pressure to make a thread of uniform diameter for it's entire length. A rolling rate of 80 to 90 strokes/minute shall be used. When the diameter of the thread becomes 3.0 mm (approx. 1/8") break thread into 6 to 8 pieces then make a ball and repeat process. There is a 2 minute time to get from a ball down to 3.0 mm (approx. 1/8").		ad
5.	<b>Re-roll until thread breaks or crumbles.</b> Repeat step # 4 unt segments 6.4 mm $(1/4")$ to 9.5 mm $(3/8")$ in length. The sam at least once before it breaks or crumbles, if failure occurs o steps. Do not attempt to produce failure at 3.0 mm $(1/8")$ in	nple must be rolled to 3.0 mm (1/8") In the first try add moisture and repea	t 
6.	<b>Collect crumbled particles.</b> Using the spatula, gather all por a suitable container, <b>cover immediately</b> and determine the		
7.	Remove cover and place in oven at 110±5° C (230±9° F) and dry to constant mass.  When removing sample from the drying oven cover immediately.		
8.	<b>Determine moisture content.</b> After drying to a constant mato the nearest 0.01g and calculate moisture content to the r		
9.	Report Plastic Limit. Plastic Limit is recorded as the nearest	whole number .	
10.	<b>Determine Plasticity Index (PI).</b> Calculate the Plasticity Index of the soil as the difference between its Liquid Limit and its Plastic Limit. Example: LL – PL = PI, the result is reported to the nearest whole number.		
COM	MENTS: First Attempt: Pass  Fail  Second Atten	npt: Pass 🔲 Fail 🔲	
Examiner Signature:		Sampler / Tester Qualification	#
Evami	ner Signature	Sampler / Tester Qualification :	<del>4</del>